

Introduction

The Allied Telesyn AT-2450FTX Fast Ethernet adapter card offers a reliable and cost-effective means of connecting a computer to a 100Mbps Fast Ethernet or 10Mbps Ethernet network and the internet. This PCI-bus product provides true plug-and-play connection and excellent performance in either 10Mbps or 100Mbps (copper) or 10Mbps (fiber) network segments.

Package Checklist

The Allied Telesyn AT-2450FTX includes:

- 1 AT-2450FTX Fast Ethernet Adapter Card
- 1 CardAssistant driver CD
- 1 user guide

System Requirements

The AT-2450FTX Fast Ethernet adapter card requires the following basic host PC features:

- A host PC that supports PCI-bus peripheral cards
- 16 MB of RAM
- Microsoft Windows (2000, 98, 95, NT 3.5x or 4.0, or Windows for Workgroups 3.11)

You also need to provide the following items:

- A 100Mbps Fast Ethernet or 10Mbps Ethernet (copper segment) or 10Mbps Ethernet (fiber segment) local area network (LAN)
- 1 standard twisted-pair cable (Category 3 or above for 10Mbps operation; Category 5 for 100Mbps operation), 100 m maximum length or 1 standard 62.5/125 μ m fiber cable with supported connectors (type ST or SC)

Installation—Windows 2000 / Windows 9x

IMPORTANT—DO NOT INSERT THE ADAPTER CARD UNTIL YOU HAVE RUN WINPREP (Step 1, below). If you installed the adapter card without running WINPREP—and booted your computer—see the box “If you inserted the card BEFORE running WINPREP. . .”

These instructions assume Windows 2000, Windows 98, or Windows 95 is installed according to your computer’s documentation. For the majority of applications, installing the AT-2450FTX Fast Ethernet adapter card involves running WINPREP.EXE and plugging the adapter card into a PCI slot in your computer. The driver files for the AT-2450FTX adapter card are installed by Windows during the next boot.

1 Run WINPREP

Insert the CardAssistant CD. Choose “AT-2450FTX” and then choose “WINPREP”. (If Autorun CD feature of Windows is disabled, the menu screen does not come up. In this case, browse to the folder “DRIVERS\AT2450_2700” on the CD-ROM drive and run the WINPREP.EXE application.) WINPREP automates

the installation process, preparing Windows for the adapter card by copying driver files to your hard drive. When WINPREP finishes copying files to the proper directories, choose “Shutdown” (Windows 98 or 95) or “Exit” (Windows 2000).

2 Install the Adapter Card

WARNING—High voltages inside the computer present a safety hazard. Make sure the power is off before removing the cover. This LAN adapter card is for use only with IBM or compatible UL-listed personal computers that have installation instructions detailing installation of PCI peripherals. Installation should be performed with precautions to prevent damage to static-sensitive components.

Follow your computer’s instruction manual for specific information on installing peripheral devices in your computer. Once the adapter card is seated in a PCI slot and the computer’s cover is back on, plug in the cable, turn on the power, and reboot into Windows.

Important cable considerations: Copper—The AT-2450FTX is for use with 10Base-T or 100Base-TX LAN segments, using an 8-pin (4-pair) RJ45 connector for the network cable. Be sure that all cabling used with the AT-2450TX in a 10Base-T segment is of Category 3, 4, or 5, and that all cabling used in a 100Base-TX segment is of Category 5.

Important cable considerations: Fiber—The cable must comply with the appropriate IEEE 802.3 standard for 62.5/125 μ m multimode fiber cable. The cable between the computer and the hub must be less than 2000 meters long for full-duplex operation and 412 meters long for half-duplex operation. The transmit circuit of the adapter card is connected to the receive circuit of the hub and vice versa.

If you inserted the card BEFORE running WINPREP. . .

... you must run WINPREP, remove default drivers, and install new drivers:

1. Run WINPREP.
2. On the Windows desktop, right-click “My Computer” and select “Properties”.
3. (Windows 2000 only) Select the “Hardware” tab.
4. Select “Device Manager”.
5. Double-click “Network Adapters”.
6. Highlight the driver name that begins “AMD PCNet . . .” or “Allied Telesyn . . .”.
7. Select “Remove”.
8. (Windows 95 only) From the Start menu, select “Settings”, “Control Panel”. Right-click “Network” and select “Properties”. If a driver name that begins “AMD PCNet . . .” or “Allied Telesyn . . .” appears, highlight it and select “Remove”.
9. Reboot the computer. Proceed with Step 3, Install Drivers.

3 Install Drivers

Windows 2000 automatically installs and loads drivers into memory with no reboot required. If you are using Windows 9x, you may be prompted for the Windows 9x CD during the process. Re-boot the system when Windows prompts for it. (If Windows 2000 displays a “Digital Signature Not Found” dialog box, click “Yes” to continue the installation.) Refer to the Microsoft operating system documentation to configure network clients and protocols.

Installation—Windows NT, Versions 3.5x and 4.0 / Windows for Workgroups, Version 3.11

IMPORTANT—Step-by-step instructions for each of these Windows versions are found on the CardAssistant CD in the INFO directory.

The standard Windows installation procedure is to insert the adapter card in a PCI slot according to Step 2, Install the Adapter Card. Once the adapter card is seated in a PCI slot and the computer’s cover is back on, plug in the cable, turn on the power, and boot into Windows.

NOTE: If the computer in which you are installing the adapter card does not have a CD-ROM drive, you can create installation diskettes on one that does. From the CardAssistant CD, choose the “Create Diskettes” link to copy the needed files to two blank formatted 3½ inch floppy diskettes.

The Allied Telesyn AT-24_27 CardAssistant CD provides drivers for Windows NT versions 3.5, 3.51 and 4.0, and version 3.11 of Windows for Workgroups. If you don’t know your Windows version, open the Microsoft Windows System Control Panel. Pick the driver you need from the following table so that you can point Windows to the right directory on the CardAssistant CD or diskette during installation.

Operating System	Release	Driver	Location
Windows NT	3.5x	NDIS3	*\ndina3
	4.0	NDIS4	*\
Windows for Workgroups	3.11	NDIS3 / NDIS2	*\

* On the CD, the path to the location begins:

<DRIVE>:\DRIVERS\AT2450_2700

On the diskette, the path to the location begins:











<DRIVE>:

LED Functions

The AT-2450FTX Fast Ethernet adapter card has four LEDs: The top (green) Full Duplex and Link LEDs and the bottom (yellow) 100 Mbps and Activity LEDs.

FD	
On	Indicates Full Duplex Mode
LNK	
On	Indicates a valid network connection on the port (UTP or fiber)
100	
On	Indicates the port connection is operating at 100 Mbps (100Base-TX)
Off	Indicates the RJ45 port connection is operating at 10 Mbps (10Base-T)
ACT	
On (flashing)	Indicates data is being exchanged

Safety

	<p>Electrical Safety</p> <p>Electrical Safety TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>This is a "CLASS 1 LED PRODUCT"</p> <p>Warning: Do not touch the Laser beam.</p> <p>OPERATING TEMPERATURE</p> <p>This product is designed for a maximum ambient temperature of 55 degrees C.</p> <p>ALL COUNTRIES: Initial product in accordance with UL and Safety and Electrical Code.</p>
	<p>SICHERHEIT</p> <p>Elektrische Sicherheit TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Das ist ein "LED Produkt der Klasse 1"</p> <p>VORSICHTUNG: Nicht direkt in den Strahl blicken.</p> <p>BETRIEBS TEMPERATUR</p> <p>Dieses Produkt wurde für einen Betriebs in einer Umgebungstemperatur von nicht mehr als 55 °C konzipiert.</p> <p>ALLE LÄNDER: Initialisatör in Übereinstimmung mit UL und Sicherheits- und Vorschriften.</p>
	<p>SICHERHEIT</p> <p>Elektrisk sikkerhet TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Dette er et "PRODUKT UNDER KLASSE 1 LED"</p> <p>ADVARSEL: Se ikke på strålen.</p> <p>BETRIENINGSTEMPERATUR</p> <p>Dette apparat er konstruert for en omgivende temperatur på maksimum 55 grader C.</p> <p>ALLE LÄNDER: Initialisatör in Übereinstimmung mit UL und Sicherheits- und Vorschriften.</p>
	<p>VEILIGHED</p> <p>Elektrisk Veilighed TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Dette er en "KLASSE 1 LED-PRODUKT"</p> <p>VAROITUS: Älä katso suoraan silmäsiin.</p> <p>BRUGSREJSE TEMPERATUR</p> <p>Dette apparat er konstrueret til brug i en omgivelsetemperatur på maksimum 55 grader Celsius.</p> <p>ALLE LÄNDER: Initialisatör in Übereinstimmung mit UL und Sicherheits- und Vorschriften.</p>
	<p>SECURITE</p> <p>Securitate electrice TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Ce este un produs "PRODUS ÎN CLASA 1 DE ELECTROLUMINENȚE DE CLASĂ 1"</p> <p>ATENȚIUNE! Nu pune mâna în fața sau din spate.</p> <p>TEMPERATUR DE FUNCȚIONARE</p> <p>Ce produs este conceput pentru o temperatură ambientală maximă de 55 de grade Celsius.</p> <p>POUR TOUS LES PAYS: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>
	<p>TURVALLISUUS</p> <p>Sähköturvallisuus TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Tämä on "ENSI MÄÄRIEN LUOKAN VALODIODE TUOTE"</p> <p>VAROITUS: Älä katso suoraan silmiin.</p> <p>KÄYTTÖLÄMPÖTILA</p> <p>Tämä tuote on suunniteltu toimimaan ympäristölämpötilalla 55 °C.</p> <p>SÄHKÖTURVALLISUUS: Älä kosketa tuotetta suoraan silmiin, kun se on päällä.</p>
	<p>NORMALE DI SICUREZZA</p> <p>Sicurezza elettrica TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Questo è un "PRODOTTO DI CLASSE 1 DI CLASSE 1"</p> <p>AVVERTENZA: Non guardare negli occhi.</p> <p>TEMPERATURA DI FUNZIONAMENTO</p> <p>Questo prodotto è concepito per una temperatura ambientale massima di 55 gradi centigradi.</p> <p>TUTTI I PAESI: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>
	<p>SICHERHEIT</p> <p>Elektrisk sikkerhet TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Dette er et "KLASSE 1 LED PRODUKT"</p> <p>ADVARSEL: Se ikke på strålen.</p> <p>DRIFTS TEMPERATUR</p> <p>Dette produktet er konstruert for bruk i maksimumstemperatur på 55 grader celsius.</p> <p>ALLE LÄNDER: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>
	<p>SEGURANÇA</p> <p>Segurança elétrica TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Deste é um "PRODUTO DE CLASSE 1 LED"</p> <p>ATENÇÃO: Não olhe diretamente para o feixe.</p> <p>TEMPERATURA DE FUNCIONAMENTO</p> <p>Deste produto é projetado para uma temperatura ambiental máxima de 55 graus centígrados.</p> <p>TODOS OS PAÍSES: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>
	<p>SEGURIDAD</p> <p>Seguridad eléctrica TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Este es un "PRODUCTO DE CLASE 1 DE CLASE 1"</p> <p>ADVERTENCIA: No miras directamente a los ojos.</p> <p>TEMPERATURA REQUERIDA PARA LA OPERACIÓN</p> <p>Deste produto é projetado para uma temperatura ambiental máxima de 55 graus C.</p> <p>PARA TODOS LOS PAISES: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>

	<p>SÄKERHET</p> <p>Elektrisk säkerhet TUVEENH 38, UL 1914, CS A3 B3</p> <p>Las e EN 60323</p> <p>Dette är en "KLASS 1 LED-PRODUKT"</p> <p>VARNING: Se inte riktigt i ögonen.</p> <p>DRIFTS TEMPERATUR</p> <p>Dette produktet er konstruert for bruk i maksimumstemperatur på 55 grader Celsius.</p> <p>ALLE LÄNDER: Initialiser le produit en conformité avec les normes américaines et les normes électriques nationales.</p>
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Compliance Information

FCC Class B Certification

Allied Telesyn International Corporation

Model Numbers: AT-2450FTX

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
 - Increase the separation between the equipment and receiver
 - Connect the equipment into an outlet on a circuit different from the one which the receiver is connected to
 - Consult the dealer or an experienced radio/TV technician for help
- We are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
- Attach unshielded or shielded twisted-pair cable to the RJ45 port and 62.5/125µm multi-mode cable to the fiber port.

Note: In order to maintain compliance with the limits of a Class B digital device, Allied Telesyn requires that you use a quality interface cable when connecting to this device. Changes or modifications not expressly approved by Allied Telesyn could void the user's authority to operate this equipment. Suggested cable type is 62.5/125µm multi-mode cable for the fiber port and 100 Ω shielded or unshielded Category 3, 4, or 5 cable for the RJ45 port in 10 Mb mode, and 100 Ω shielded or unshielded Category 5 cable for the RJ45 port in 100 Mb mode.

Industry Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-103 édictée par l'Industrie Canada.

EN55022 Declaration of Conformance

This is to certify that the Allied Telesyn AT-2450 is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN55022:1987 Class B (CISPR 22:1988 and EN55022:1988).

CE Mark Declaration of Conformance

This is to certify that this product conforms with ISO/IEC Guide 22 and EN45014. It conforms to the following specifications:

EMC:	EN55022:1988 (EN55022-2) (1985)	Class B
	IEC 1000-4-2 (1995)	4kV C1A 8kV AD
	IEC 1000-4-3 (1995)	3V/m
	IEC 1000-4-4 (1995)	1kV - (power line)
	IEC 1000-4-6 (1995)	3V/m

This product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC.

Warranty

Allied Telesyn warrants to the original owner that the product delivered in this package will be free from defects in material and workmanship for the lifetime of the product. There will be a minimal charge to replace consumable components, such as fuses, power transformers, and mechanical cooling devices. The warranty does not cover the product if it is damaged in the process of being installed. Allied Telesyn recommends that you have the company from whom you purchased this product install it.

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QUICK INSTALL GUIDE

AT-2450FTX Fast Ethernet Network Adapter Card